



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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August 20, 1992

Mr. Russell Dobson
Cricket Mountain Plant Manager
Continental Lime, Incorporated
P.O. Box 966
Delta, Utah 84624

Dear Mr. Dobson:

Re: Tentative Approval of the Cricket Mountain Quarry Revision, M/027/006,
Continental Lime Inc., Millard County, Utah

This letter provides the Division's response to the permit amendment application submitted by Continental Lime on April 14, 1992. The Division is satisfied with the operator's overall Mining and Reclamation Plan (MRP), and hereby tentatively approves Continental Lime's permit revision for the Cricket Mountain Quarry. However, some questions still need to be addressed by Continental Lime prior to final approval. Our response and review of the submittal is formatted by regulation number and category, in chronological order. To help us facilitate the review, please format your response in the same fashion.

R613-1-102.3: - Compliance with Other Local, State and Federal Agencies

1. Has the operator met the requirements for the recently enacted State law, which requires that a survey be performed for any archeological values that may exist on the site? This requirement is regulated via the Division of State Lands and Forestry. You will need to contact State Lands and Forestry regarding this requirement. - HWS

R613-004-106: - Operation Plan

106.8 - Depth to groundwater, overburden material & geologic setting

- ✓ 1. What is the approximate depth to groundwater in the vicinity of the operation? Are there any wells in the vicinity of the mine or mill? - HWS

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- ✓2. Describe the general geologic setting for this area. - HWS

R613-004-107 - Operation Practices

107.1.12 - Disposal of trash, debris

- ✓1. Please explain your method of disposing of trash and debris generated at the site during operations. Is this material buried on-site or removed off-site to a licensed landfill? - AAG

R613-004-109 - Impact Assessment

109.1 - Surface & groundwater systems

- ✓1. Is the operator aware of any surface or groundwater impacts that could arise from this mining operation? - HWS

109.2 - Wildlife habitat and endangered species

- ✓1. Will there be any significant impacts to wildlife habitat associated with this operation? - HWS
- ✓2. Has the operator looked into the question of impacts to endangered species in this area? - HWS

R613-004-110 - Reclamation Plan

110.5 - Revegetation planting program and topsoil redistribution

- ✓1. The operator has not committed to a specific seed mixture and seeding rate in the MRP. Therefore, the seed mixture provided in appendix A should be incorporated into the permit. If the test plot evaluation indicates otherwise, then the seed mix can be amended later. Because some of the species recommended may be expensive and may not prove successful on your site, I suggest that you experiment with the recommended list prior to extensive application. - HWS

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R613-004-111 - Reclamation Practices

111.2 - Reclamation of natural stream channels

- ✓ 1. Please provide the Division with more specific information concerning the diversion ditch to be constructed at the toe of the West Waste Dump. Please provide a cross sectional diagram and estimate of the peak flow volume it will carry. The ditch should be designed to pass the 100 yr/24 hr event storm. - HWS

R613-004-112 - Variance

1. Please provide the Division with proof that the main access road from the plant to the first switchback at the mine quarry, is a county road. - AAG

R613-004-113 - Surety

1. The operators surety estimate is acceptable for the most part. The Division would prefer the quarry benches, explosives magazine road, and miscellaneous development roads be "ripped" to a 12 inch depth rather than "scarified" to 12 inch depth. Ripping by using a dozer with ripper teeth provides a deeper fracturing of the compacted surfaces compared with scarifying. The Division estimates a unit cost for ripping at the Cricket Mountain Quarry to be \$0.26/CY. Adjusting the scarifying line items to ripping and rounding to the nearest ten, increases the subtotals for the Cricket Mountain Quarry Reclamation, Explosives Magazines & Road, and Topsoil Stockpiles & Misc. Development Roads sections to \$106,705, \$640, and \$3,090, respectively.

The Division reclamation estimates must be based on third party costs, consequently a mobilization/demobilization cost will need to be included in this estimate. The Division estimates a mobilization cost of \$6,000 (for six pieces of equipment) for final reclamation.

Adding in the revisions and adjustments mentioned above, brings the total estimate to \$269,865 (1992-\$). Escalating this amount five years into the future at 1.27% and rounding to the nearest hundred gives a total of **\$287,400 in 1997 dollars**. The Division will request this amount as reclamation surety for the Cricket Mountain Quarry until the year 1997 when the estimate and operation will

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be re-evaluated. Please confirm these calculations and provide the Division with the updated surety as soon as possible. The \$179,000 surety the Division currently holds will be returned to Continental Lime as soon as we receive the updated surety. - AAG

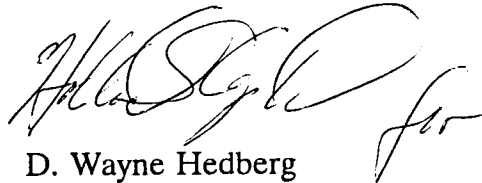
R613-004-116 - Public Notice and Appeals

1. As stated in the Division's September 23, 1991 letter to Continental Lime, this amendment to the permit constitutes a significant change. Hence, the Division has designated the amendment a revision, which requires public notice and review. The process takes 30 days after tentative approval.

Final approval of this permit revision will be made after: 1) the operator has addressed the comments provided above, 2) the Board has approved the form and amount of surety, and 3) the 30 day public review period has elapsed (the public review period begins at the time of tentative approval). If Continental Lime is able to respond to the review comments within 30 days after receipt of this letter, final approval of this revision would be greatly facilitated.

Thank you for your continued diligence and a much improved MRP.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Wayne Hedberg", followed by a long horizontal flourish.

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb
cc: Rody Cox, Warm Springs RA, BLM
Jerry Mansfield, State Lands and Forestry
Holland Shepherd, DOGM
M027006

Recommended Species List
for
Continental Lime
Cricket Quarry Mine

M/027/006

Prepared by DOGM August 17, 1992

<u>Common Name</u>	<u>Species Name</u>	<u>*Rate lbs/ac (PLS)</u>
Grasses:		
Indian Ricegrass	Oryzopsis hymenoides	2
Crested Wheatgrass	Agropyron Cristatum	2
Western Wheatgrass	Agropyron smithii	2
Russian Wildrye	Elymus junceus	2
Bottlebrush Squirrealtail	Sitanion hystrix	2
Forbs:		
Immigrant Forage Kochia	Kochia prostrata	1
Yellow Sweetclover	Melilotus officinalis	1
Desert Globemallow	Sphaeralcea ambigua	.5
Palmer Penstemon	Penstemon palmeri	.2
Blue Flax	Linum lewisii	.5
Shrubs:		
Fourwing Saltbrush	Atriplex canescens	3
Shadescale	Atriplex confertifolia	3
Rubber rabbitbrush	Chrysothamnus nauseosus	.5
Ephedra	Ephedra viridis	3
Total lbs/ac		22.7

***This the recommended broadcast ratio. If the species are to be drill seeded, reduce the broadcast rate by 1/3.**